

Detecting Static Charge Using an Electroscope

Related Theory:

A device used for detecting the presence of an electric charge is called an electroscope. In this activity, you will investigate how a metal leaf electroscope can detect the presence of a known static charge.

Purpose: *Write a purpose below for this lab.*

Hypothesis: *Write a hypothesis below for this lab.*

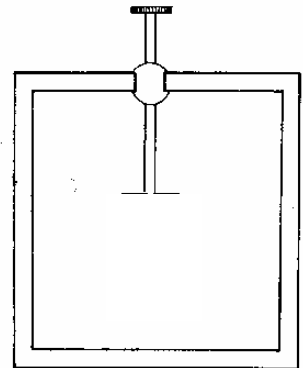
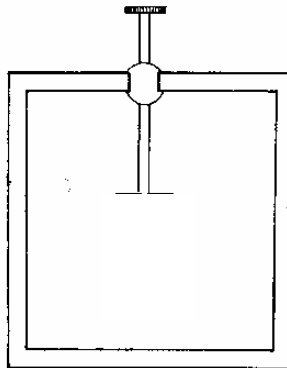
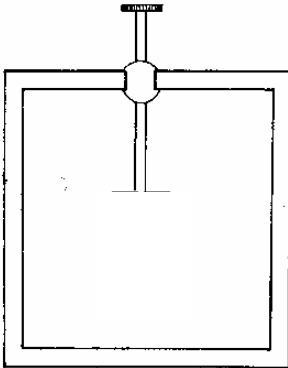
Materials: *Create a materials list below for this lab (add more bullets if necessary).*

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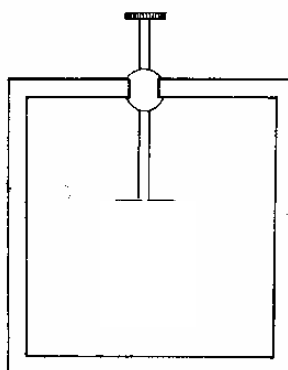
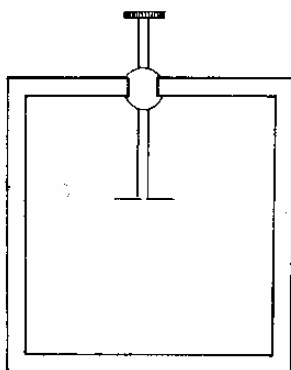
Procedure: *Refer to handout "Detecting Static Charge Using an Electroscope"*

Observations: Record observations to show your tests and results. For each test include names of the materials used and their net charges before and after charging.

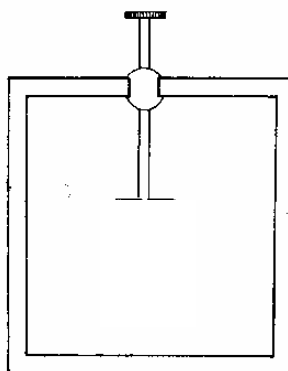
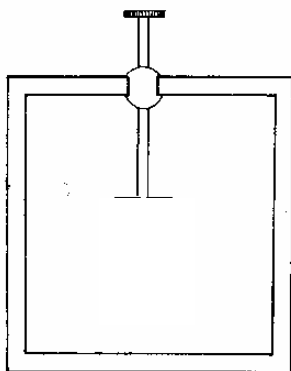
Part A: INDUCED CHARGE SEPARATION



Part B: CHARGING BY CONTACT



Part C: CHARGING BY INDUCTION



Write your Discussion section on a separate sheet of lined paper, stapled to this sheet.

Rubric:

Communication			/4++	Thinking/Inquiry			/4++
	Criteria	Level R	Level 1 (50-59%)	Level 2 (60-69%)	Level 3 (70-79%)	Level 4 (80-100%)	
Communication	<ul style="list-style-type: none"> Organization of lab Materials correct 	Not includedOr Organization of ideas is not evident	Expresses and organizes ideas and information with limited effectiveness	... with some effectiveness	... with considerable effectiveness	... with a high degree of effectiveness	
	<ul style="list-style-type: none"> Diagrams correctly labeled Diagrams drawn with care 	Use of symbols and labelling incorrect or absent	Uses symbol and labelling with limited effectiveness	...with some effectiveness	... with considerable effectiveness	... with a high degree of effectiveness	
Thinking	Purpose clearly written Hypothesis is logical, based on understanding of concepts	Not included Or Demonstrates no understanding of concepts.	Uses critical/creative thinking processes, skills, and strategies with limited effectiveness	... with some effectiveness	... with considerable effectiveness	... with a high degree of effectiveness	
	Reponses to questions						